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* available and contains the CA role and document type information. *
*

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<http://www.cas.org/ONLINE/UG/regprops.html>

=> d que sta 116
L16 22 SEA FILE=REGISTRY ABB=ON PLU=ON (MEISNDSDLFSSFPQLSPPADPETPL
LPSFSAPPKHLSSLRYKTELCSRYAESGFCAYRNRCQFAHGLSELRPPVQHPKYKTELCRS
FHVLGTCNYGLRCLFIHSPQERREPPVLPDNLSLPPRRYGGPYRERCRLWSAPGGCPYGARCH
FQHPKSARETCRHFAALGDCPYGACCHFSHSPPLDRWGSGTKNSSGSLSPSDPDSDPDTPVLS
ESPANNAFSFSSLPLALRLQILGDDDLPTASDPLPLPGDEEIAQGLLSVLG) | (M
DLTAIYESLLSLSLPDVPSDHGGTESSPGWGSSGPWSLSPSDSSPSGVTSRLPGRSTSVEG
RSCGVVPPPPGFAPLAPRLGPELSPSPSTSPTATSTTPSRYKTELCRTFSESGRCRYGAKCQFA
HGLGELRQANRHPKYKTELCHKFYLQGRCPYGSRCHFIHNPSEDLAAPGHPPVLRQSIISFSGL
PSGRRTSPPPPGLAGPSLSSSFSPSSSSPPPGDPLSPSAFSAAPGTLARRDPTPVCCPSC
RRATPISVWGPLGGLVRTPSVQSLGSD) (PDEYASSGSSLGGSDSPVFEAGVFAPPQPVAAPR
RLPIFNRIKVSE)/SQSP

=> d que sta 132
L31 77 SEA FILE=REGISTRY ABB=ON PLU=ON ((((TUMOUR OR TUMOR)
(1W) NECRO? (1W) FACTOR# OR TNF) (1W) ALPHA OR TNFA) (L) (RNA
OR mRNA)) /CNS
L32 77 SEA FILE=REGISTRY ABB=ON PLU=ON AU/SQSN AND L31

=> b hcap
FILE 'HCAPLUS' ENTERED AT 14:06:42 ON 15 MAR 2006
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FILE LAST UPDATED: 14 Mar 2006 (20060314/ED)

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This file contains CAS Registry Numbers for easy and accurate substance identification.

=> d bib abs hitind hitstr 138 tot

L38 ANSWER 1 OF 2 HCAPLUS COPYRIGHT 2006 ACS on STN
AN 2005:673041 HCAPLUS
DN 143:147736
TI Methods of using databases to create gene-expression microarrays, equine and canine microarrays created thereby, and uses of the microarrays
IN Bertone, Alicia; Gu, Weisong
PA The Ohio State University, USA
SO PCT Int. Appl., 1475 pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO2005067649	A2	20050728	2005WO-US00517	20050107
		W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW		
		RW:	BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG		
	WO2005067649	A2	20050728	2005WO-XA00517	20050107
		W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW		
		RW:	BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG		
PRAI	2004US-535111P	P	20040108		
	2005WO-US00517	A	20050107		

AB Methods of preparing biol. databases, and databases prepared according to those methods. The methods can be performed entirely using computer resources, relying solely on publicly available biol. sequence information, and can be used to generate species-specific nucleic acid microarrays. The approach involves two major steps: identification of the 3' coding domains (CDSs) and 3' expressed sequence tags (ESTs) in public domain sequence

databases and subsequent annotation of the sequences. For the algorithm using 20,022 equine sequences in GenBank (June, 2003), the 3' equine CDSs are identified by selecting the full and partial CDSs that have a stop codon at the 3' end. This approach ensures that sequences selected are anchored to the 3' end; most contain the 3' untranslated region (UTR), which is more species-specific, compared with the coding region. Use of the UTR sequence in probe design is an asset for improvement of microarray accuracy. An algorithm analyzes the partial equine CDSs and ESTs with those in a human-mouse CDS database (a subset of the GenBank nonredundant database) in order to provide annotation to the selected 3' equine sequences. A total of 3099 equine 3' coding sequences and 3' ESTs are selected for the equine-specific gene expression array, and 68,266 oligonucleotide probes designed according to Affymetrix's chip design guide. Microarray anal. identified genes expressed in equine synoviocytes in the absence and presence of lipopolysaccharide, as well as differentially expressed genes in developmental orthopedic disease (osteochondrosis dessicans and cervical vertebral malformation), equine osteoarthritis, equine protozoal myelitis, herpes virus-1 infection, potentially compromising stress, and laminitis in horses. Analogous methods are used to generate a canine-specific microarray to detect gene expression during osteoarthritis in dogs. [This abstract record is one of two records for this document necessitated by the large number of index entries required to fully index the document and publication system constraints.]

IC ICM C12N
 CC 3-1 (Biochemical Genetics)
 Section cross-reference(s): 13, 14
 IT Proteins
 RL: BSU (Biological study, unclassified); BIOL (Biological study)
 (α - TTP (α -tocopherol-transfer protein), gene used
 in microarray; methods of using databases to create gene-expression
 microarrays, equine and canine microarrays created thereby, and uses of
 the microarrays)
 IT 134911-17-4 134911-21-0 134911-23-2 134911-26-5 136217-80-6, DNA
 (Canis familiaris clone D41/D44 glycoprotein GP 2 cDNA) 139793-18-3, DNA
 (Canis familiaris clone RDC7 cDNA) 139793-23-0, GenBank M35521
 139793-24-1 139844-55-6, DNA (horse transferrin cDNA plus flanks)
 139846-49-4 139847-57-7 139898-19-4 139898-21-8 140012-92-6,
 GenBank X05297 140012-96-0 140012-97-1, GenBank M33826 140012-98-2
 140012-99-3, DNA (Canis familiaris clone RDC4 cDNA) 140013-00-9
 140013-01-0, DNA (Canis familiaris clone RDC8 cDNA) 140013-04-3, GenBank
 M32283 140013-05-4, GenBank Y00399 140013-06-5, GenBank M35302
 140013-18-9, GenBank M14546 140013-19-0, DNA (Equus caballus zeta globin
 gene) 140061-99-0 140066-19-9, GenBank M14544 140076-21-7
 140076-22-8 140083-38-1 140095-76-7 140098-92-6 140261-32-1, DNA
 (Canis familiaris precursor cDNA) 140261-34-3, GenBank M17177
 140261-35-4, GenBank M17178 140261-41-2, GenBank M29611 140261-47-8,
 GenBank M35520 140261-48-9, GenBank M35522 140261-52-5, GenBank J04067
 140261-53-6 140261-54-7, GenBank J05069 140261-63-8 140261-64-9,
 GenBank M14545 140321-56-8 140330-41-2 140330-43-4 140331-04-0
 140331-05-1 140333-10-4 140335-50-8, DNA (Canis familiaris calcitonin
 cDNA) 140338-42-7 140497-03-6, DNA (Canis familiaris LH precursor
 cDNA) 140497-06-9, GenBank M35301 140497-08-1 140540-10-9, DNA
 (Equus caballus gene CG cDNA) 140729-04-0, GenBank M29957 140729-34-6,
 DNA (Equus caballus alpha 2 globin gene) 141009-94-1 141162-34-7
 141165-97-1, DNA (Canis familiaris gene ICln cDNA) 141372-18-1
 142101-76-6 142318-38-5 142455-67-2 142480-77-1, DNA (Equus caballus
 gene FLAP cDNA) 142830-20-4 142883-14-5 143002-99-7 143525-11-5,
 DNA (Equus caballus gene lipase cDNA) 144507-51-7 144507-52-8
 144893-66-3, DNA (Canis familiaris gene K-ras cDNA) 144915-61-7
 145408-43-1 146169-94-0 146494-33-9, GenBank L01473 147457-85-0
 147904-27-6 148211-93-2 148281-51-0 148427-45-6 148543-29-7
 149346-66-7 149448-13-5 149448-14-6 149766-73-4 149766-75-6
 149766-78-9 149766-79-0 149767-79-3 149974-81-2 150121-66-7
 150201-34-6 150419-58-2 150532-69-7 150532-70-0 151116-49-3, DNA
 (Canis familiaris E-selectin cDNA) 151241-71-3 151246-66-1

151494-43-8 151551-41-6 151579-69-0 151631-74-2 152282-45-6
 152371-39-6 152394-12-2 152394-13-3 153637-50-4 153771-18-7
 153792-44-0 153792-45-1 153794-66-2, GenBank L29489 153794-67-3,
 GenBank L29490 154167-97-2 154448-78-9 154980-06-0 154982-96-4
 155461-23-7 155484-89-2 156709-68-1 157112-26-0 157152-63-1
 157344-13-3 157883-49-3 158024-87-4 158024-88-5 158085-35-9
 158158-33-9 158160-85-1 158449-39-9 158644-08-7 158762-41-5
 158995-05-2 159317-15-4 160043-38-9 160610-51-5 160897-61-0
 160966-61-0 161309-36-0 161781-54-0 162076-76-8
 162114-30-9 162159-77-5 162197-61-7 162487-84-5 164249-75-6
 164687-11-0 164687-63-2, DNA (Canis familiaris gene GMP140 cDNA)
 164687-70-1 164687-72-3 165411-95-0 165474-06-6 165757-59-5
 165906-50-3 165906-81-0 165998-05-0 166229-81-8 166840-99-9
 166841-19-6 167329-00-2 168579-61-1 168854-84-0 169071-41-4
 170176-34-8 170176-79-1 170205-82-0, DNA (Equus caballus gene IL-10
 cDNA) 170206-30-1 170247-47-9 170336-72-8 170404-26-9
 170549-82-3 170829-96-6 170896-08-9, DNA (Canis familiaris gene RDS
 cDNA) 171710-89-7 171840-05-4 171958-03-5 172135-40-9
 172176-79-3 172776-50-0 173295-39-1, DNA (Canis familiaris caveolin-1
 cDNA) 173892-25-6 174386-92-6 174386-93-7 174387-85-0
 174387-87-2 174450-25-0 175033-59-7 175107-82-1 175114-53-1
 175384-44-8, DNA (Equus caballus gene TSH-beta cDNA) 175484-65-8
 175641-31-3 175824-10-9 176454-80-1 176458-04-1 176458-06-3
 176458-59-6, DNA (horse protein MxA cDNA plus flanks) 176947-53-8
 177307-96-9 177526-87-3, DNA (Canis familiaris SRP14 cDNA) 178085-88-6
 178094-21-8 178147-77-8 178298-26-5, DNA (horse beta-lactoglobulin I
 cDNA) 178298-99-2 178300-32-8 178300-38-4 178356-39-3, DNA (horse
 beta-lactoglobulin II cDNA) 178836-58-3 179708-49-7, DNA (Equus
 caballus clone I7 cDNA) 179789-79-8 179789-80-1 179956-58-2
 180563-10-4 181109-73-9 181727-57-1 182456-78-6 182521-47-7
 183575-13-5 184513-16-4 184659-86-7 184859-12-9 185082-18-2
 185082-19-3 185082-20-6 185236-09-3 185239-95-6 185979-49-1
 187132-36-1 187132-37-2 188222-48-2, DNA (Canis familiaris biglycan
 cDNA) 188222-49-3, DNA (Canis familiaris decorin cDNA) 188333-61-1
 190046-24-3 190211-31-5

RL: BUU (Biological use, unclassified); DGN (Diagnostic use); PRP
 (Properties); BIOL (Biological study); USES (Uses)
 (nucleotide sequence; methods of using databases to create
 gene-expression microarrays, equine and canine microarrays created
 thereby, and uses of the microarrays)

IT 161309-36-0
 RL: BUU (Biological use, unclassified); DGN (Diagnostic use); PRP
 (Properties); BIOL (Biological study); USES (Uses)
 (nucleotide sequence; methods of using databases to create
 gene-expression microarrays, equine and canine microarrays created
 thereby, and uses of the microarrays)

RN 161309-36-0 HCPLUS
 CN DNA (Canis familiaris clone pDog-TNF- α tumor necrosis factor α
 cDNA plus flanks) (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

L38 ANSWER 2 OF 2 HCPLUS COPYRIGHT 2006 ACS on STN
 AN 2001:137044 HCPLUS
 DN 134:189743
 TI Binding of tristetraprolin (TTP)-related CCCH zinc
 finger proteins to AU-rich elements of mRNA and uses thereof in treatment
 of granulocytopenia by regulating GM-CSF mRNA stability
 IN Blackshear, Perry J.; Lai, Wi S.; Carballo-Jane, Ester
 PA United States Dept. of Health and Human
 Services, USA
 SO PCT Int. Appl., 133 pp.
 CODEN: PIXXD2
 DT Patent
 LA English
 FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE	
PI WO2001012213	A2	20010222	2000WO-US22199	20000814 <--	
WO2001012213	A3	20010607			
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM					
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG					
AU2000066388	A5	20010313	2000AU-0066388	20000814 <--	
PRAI 1999US-148810P	P	19990813			
2000WO-US22199	W	20000814			
AB	The invention provides methods based upon the discovery that tristetraprolin (TTP) and TTP-related proteins stimulate the destruction of certain mRNAs by binding to an AU-rich element (ARE) within the 3' untranslated region of such mRNAs, and that the zinc finger domain of TTP and TTP-related proteins is sufficient to mediate this destruction. The present invention provides methods of regulating the destruction of mRNA mols. containing an AU-rich element (ARE) by tristetraprolin (TTP)-related CCCH zinc finger proteins, for example, methods of stimulating the degradation of an mRNA mol. encoding TNF- α , and methods of inhibiting the degradation of an mRNA mol. encoding GM-CSF. Also provided are methods for identifying compds. that regulate the destruction of mRNA mols. containing AREs. The invention also features a method of treating granulocytopenia by administering TTP-related zinc finger proteins for inhibiting the degradation of GM-CSF mRNA.				
IC	ICM A61K-0038/17 ICS A61K-0048/00; C12N-0015/12; C07K-0014/47; A61P-0007/00				
CC	6-3 (General Biochemistry)				
ST	Section cross-reference(s): 1, 3, 13 CCCH zinc finger protein mRNA interaction; tristetraprolin mRNA AU element interaction; tumor necrosis factor mRNA destabilization tristetraprolin related protein; Colonystimulating factor 2 tandem zinc finger protein granulocytopenia therapy; mRNA stability regulation tristetraprolin related CCCH zinc finger protein				
IT	Genetic element RL: BPR (Biological process); BSU (Biological study, unclassified); PRP (Properties); BIOL (Biological study); PROC (Process) (ARE (AU-rich element), class II; binding of tristetraprolin (TTP)-related CCCH zinc finger proteins to AU-rich elements of mRNA and uses thereof in treatment of granulocytopenia by regulating GM-CSF mRNA stability)				
IT	Proteins, specific or class RL: BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses) (C124R, mutant TTP; binding of tristetraprolin (TTP)-related CCCH zinc finger proteins to AU-rich elements of mRNA and uses thereof in treatment of granulocytopenia by regulating GM-CSF mRNA stability)				
IT	Proteins, specific or class RL: BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses) (C147R, mutant TTP; binding of tristetraprolin (TTP)-related CCCH zinc finger proteins to AU-rich elements of mRNA and uses thereof in treatment of granulocytopenia by regulating GM-CSF mRNA stability)				
IT	Proteins, specific or class RL: BPR (Biological process); BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); PROC (Process); USES (Uses) (CCCH zinc finger-containing; binding of tristetraprolin (TTP)-related CCCH zinc finger proteins to AU-rich elements of				

mRNA and uses thereof in treatment of granulocytopenia by regulating GM-CSF mRNA stability)

IT Proteins, specific or class
 RL: BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
 (ERF1; binding of **tristetraprolin (TTP)**-related CCCH zinc finger proteins to AU-rich elements of mRNA and uses thereof in treatment of granulocytopenia by regulating GM-CSF mRNA stability)

IT Proteins, specific or class
 RL: BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
 (ERF2; binding of **tristetraprolin (TTP)**-related CCCH zinc finger proteins to AU-rich elements of mRNA and uses thereof in treatment of granulocytopenia by regulating GM-CSF mRNA stability)

IT Tumor necrosis factors
 RL: BSU (Biological study, unclassified); BIOL (Biological study)
 (TNF α mRNA destabilization; binding of **tristetraprolin (TTP)**-related CCCH zinc finger proteins to AU-rich elements of mRNA and uses thereof in treatment of granulocytopenia by regulating GM-CSF mRNA stability)

IT Gene, animal
 RL: BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
 (TTP; binding of **tristetraprolin (TTP)**-related CCCH zinc finger proteins to AU-rich elements of mRNA and uses thereof in treatment of granulocytopenia by regulating GM-CSF mRNA stability)

IT Proteins, specific or class
 RL: BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
 (XC3H-4, TZF-containing protein; binding of **tristetraprolin (TTP)**-related CCCH zinc finger proteins to AU-rich elements of mRNA and uses thereof in treatment of granulocytopenia by regulating GM-CSF mRNA stability)

IT Drug screening
 Molecular cloning
 (binding of **tristetraprolin (TTP)**-related CCCH zinc finger proteins to AU-rich elements of mRNA and uses thereof in treatment of granulocytopenia by regulating GM-CSF mRNA stability)

IT Drugs
 (comprising TTP or TTP-related proteins or agents regulating TTP activity; treatment of granulocytopenia by regulating GM-CSF mRNA stability)

IT Cytoplasm
 (cytosol, mRNA in; binding of **tristetraprolin (TTP)**-related CCCH zinc finger proteins to AU-rich elements of mRNA and uses thereof in treatment of granulocytopenia by regulating GM-CSF mRNA stability)

IT Genetic vectors
 (for expressing TTP or TTP-related protein; binding of **tristetraprolin (TTP)**-related CCCH zinc finger proteins to AU-rich elements of mRNA and uses thereof in treatment of granulocytopenia by regulating GM-CSF mRNA stability)

IT Molecular association
 (mRNA binding; binding of **tristetraprolin (TTP)**-related CCCH zinc finger proteins to AU-rich elements of mRNA and uses thereof in treatment of granulocytopenia by regulating GM-CSF mRNA stability)

IT Enzymes, biological studies
 RL: BSU (Biological study, unclassified); BIOL (Biological study)
 (mRNA degradative; binding of **tristetraprolin (TTP)**-related CCCH zinc finger proteins to AU-rich elements of mRNA and uses thereof in treatment of granulocytopenia by regulating GM-CSF mRNA stability)

IT Cell
 (mRNA in; binding of **tristetraprolin (TTP)**-related

CCCH zinc finger proteins to AU-rich elements of mRNA and uses thereof in treatment of granulocytopenia by regulating GM-CSF mRNA stability)

IT Interleukin 3
 RL: BSU (Biological study, unclassified); BIOL (Biological study)
 (mRNA stability; binding of **tristetraprolin (TTP)**
)-related CCCH zinc finger proteins to AU-rich elements of mRNA and uses thereof in treatment of granulocytopenia by regulating GM-CSF mRNA stability)

IT Mutation
 (of TTP or TTP-related proteins, for treating granulocytopenia; treatment of granulocytopenia by regulating GM-CSF mRNA stability)

IT Agranulocytosis
 (relative or absolute, treatment of; binding of **tristetraprolin (TTP)**-related CCCH zinc finger proteins to AU-rich elements of mRNA and uses thereof in treatment of granulocytopenia by regulating GM-CSF mRNA stability)

IT mRNA
 RL: BPR (Biological process); BSU (Biological study, unclassified); PRP (Properties); BIOL (Biological study); PROC (Process)
 (stability, degradation; binding of **tristetraprolin (TTP)**-related CCCH zinc finger proteins to AU-rich elements of mRNA and uses thereof in treatment of granulocytopenia by regulating GM-CSF mRNA stability)

IT Repeat motifs (protein)
 (tandem zinc finger (TZF); binding of **tristetraprolin (TTP)**-related CCCH zinc finger proteins to AU-rich elements of mRNA and uses thereof in treatment of granulocytopenia by regulating GM-CSF mRNA stability)

IT Proteins, specific or class
 RL: BAC (Biological activity or effector, except adverse); BPR (Biological process); BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); PROC (Process); USES (Uses)
 (tris-tetraprolins, interaction with mRNA; binding of **tristetraprolin (TTP)**-related CCCH zinc finger proteins to AU-rich elements of mRNA and uses thereof in treatment of granulocytopenia by regulating GM-CSF mRNA stability)

IT Protein motifs
 (zinc finger; binding of **tristetraprolin (TTP)**-related CCCH zinc finger proteins to AU-rich elements of mRNA and uses thereof in treatment of granulocytopenia by regulating GM-CSF mRNA stability)

IT 83869-56-1, GM-CSF
 RL: BPR (Biological process); BSU (Biological study, unclassified); BIOL (Biological study); PROC (Process)
 (mRNA stability regulated by TTP; binding of **tristetraprolin (TTP)**-related CCCH zinc finger proteins to AU-rich elements of mRNA and uses thereof in treatment of granulocytopenia by regulating GM-CSF mRNA stability)

IT 326947-75-5 326947-76-6 326947-77-7
 326947-78-8 326947-85-7 326947-86-8
 RL: PRP (Properties)
 (unclaimed nucleotide sequence; binding of **tristetraprolin (TTP)**-related CCCH zinc finger proteins to AU-rich elements of mRNA and uses thereof in treatment of granulocytopenia by regulating GM-CSF mRNA stability)

IT 139691-22-8, Tris-tetraprolin (human gene ZFP36 reduced) 161706-34-9, Protein ERF-2 (human gene ERF-2)
 229160-23-0 326947-63-1 326947-64-2 326947-65-3
 326947-66-4 327026-01-7 327026-04-0 327026-07-3 327026-08-4
 327026-13-1 327026-18-6 327026-25-5 327026-27-7 327026-57-3
 327026-66-4 327026-77-7 327026-80-2
 RL: PRP (Properties)
 (unclaimed protein sequence; binding of **tristetraprolin (TTP)**-related CCCH zinc finger proteins to AU-rich elements of mRNA and uses thereof in treatment of granulocytopenia by regulating

GM-CSF mRNA stability)

IT 157079-69-1 165588-58-9 326947-79-9
 326947-80-2 326947-81-3 326947-82-4
 326947-83-5 326947-84-6
 RL: PRP (Properties)
 (unclaimed sequence; binding of tristetraprolin (TTP)-related CCCH zinc finger proteins to AU-rich elements of mRNA and uses thereof in treatment of granulocytopenia by regulating GM-CSF mRNA stability)

IT 326947-75-5 326947-76-6 326947-77-7
 326947-78-8 326947-85-7 326947-86-8
 RL: PRP (Properties)
 (unclaimed nucleotide sequence; binding of tristetraprolin (TTP)-related CCCH zinc finger proteins to AU-rich elements of mRNA and uses thereof in treatment of granulocytopenia by regulating GM-CSF mRNA stability)

RN 326947-75-5 HCPLUS

CN DNA, d(G-T-C-G-A-C-A-C-T-C-A-G-A-G-A-A-G-G-C-T-A-A-G-G) (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

RN 326947-76-6 HCPLUS

CN DNA, d(C-A-T-T-C-A-A-A-G-G-G-A-T-A-T-C-A-G-T-C-A-G) (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

RN 326947-77-7 HCPLUS

CN DNA, d(G-T-G-G-C-T-T-C-T-A-G-A-T-G-C-A-T-G-G-G-T-G-G-C-A-T-C) (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

RN 326947-78-8 HCPLUS

CN DNA, d(G-A-A-G-G-A-C-A-C-C-T-C-T-A-G-A-G-A-C-A-A-A-T-G-A-T-G-C) (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

RN 326947-85-7 HCPLUS

CN 48: PN: WO0112213 SEQID: 24 unclaimed DNA (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

RN 326947-86-8 HCPLUS

CN 49: PN: WO0112213 SEQID: 25 unclaimed RNA (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

IT 139691-22-8, Tris-tetraprolin (human gene ZFP36 reduced) 229160-23-0
 RL: PRP (Properties)
 (unclaimed protein sequence; binding of tristetraprolin (TTP)-related CCCH zinc finger proteins to AU-rich elements of mRNA and uses thereof in treatment of granulocytopenia by regulating GM-CSF mRNA stability)

RN 139691-22-8 HCPLUS

CN Tris-tetraprolin (human gene ZFP36 reduced) (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

RN 229160-23-0 HCPLUS

CN CCCH zinc finger protein C3H-4 (Xenopus laevis gene C3H-4) (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

IT 157079-69-1 165588-58-9 326947-79-9
 326947-80-2 326947-81-3 326947-82-4
 326947-83-5 326947-84-6
 RL: PRP (Properties)
 (unclaimed sequence; binding of tristetraprolin (TTP)-related CCCH zinc finger proteins to AU-rich elements of mRNA and

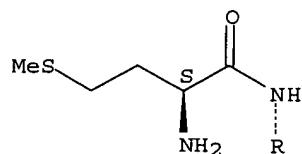
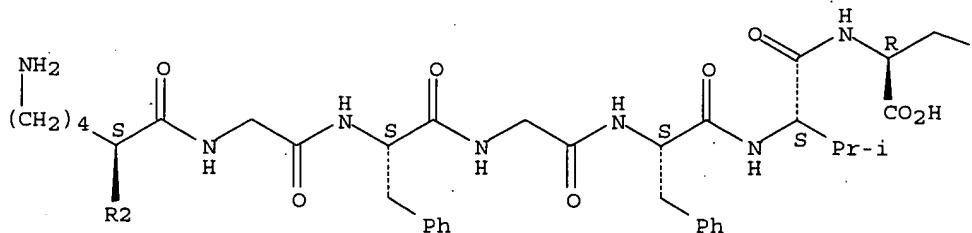
uses thereof in treatment of granulocytopenia by regulating GM-CSF mRNA stability)

RN : 157079-69-1 HCAPLUS

CN L-Cysteine, L-methionyl-L-arginyl-L-threonyl-L- α -glutamyl-L-asparaginylglycyl-L-lysyl-L-seryl-L-lysylglycyl-L-phenylalanylglycyl-L-phenylalanyl-L-valyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

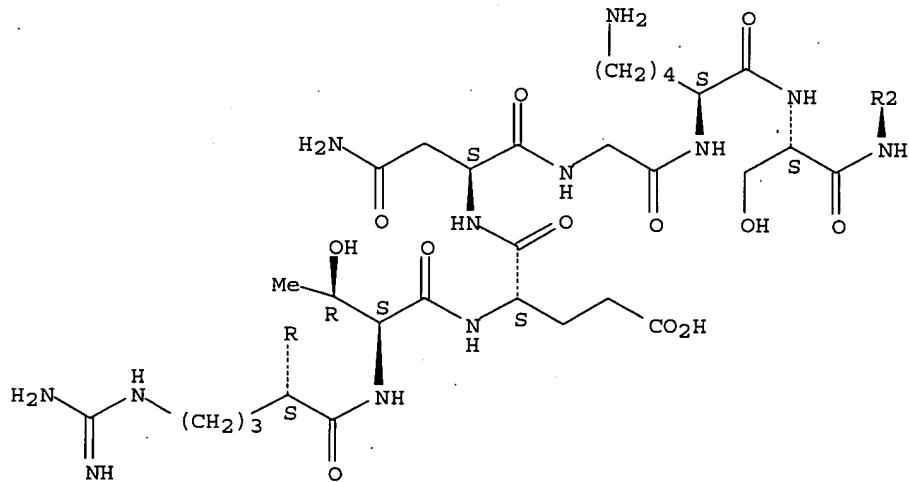
PAGE 1-A



PAGE 1-B

—SH

PAGE 2-A



RN 165588-58-9 HCAPLUS

CN RNA, (U-U-A-U-U-U-A-U-U) (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

RN 326947-79-9 HCAPLUS
 CN DNA, d(C-T-T-T-C-C-G-A-A-T-T-C-A-C-T-G-G-A-G-C-C-T-C) (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

RN 326947-80-2 HCAPLUS
 CN DNA, d(T-A-G-A-T-C-T-A-G-A-A-G-C-G-A-T-C-T-T-A-T-T-T-C-T-C-T-C) (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

RN 326947-81-3 HCAPLUS
 CN DNA, d(G-A-T-A-A-G-A-T-C-T-C-A-G-G-C-C-T-T-C-C) (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

RN 326947-82-4 HCAPLUS
 CN DNA, d(G-C-C-T-T-C-T-A-G-A-T-A-A-A-T-A-C-A-T-T-C-A-T-A-A-G-C) (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

RN 326947-83-5 HCAPLUS
 CN DNA, d(C-T-G-A-T-C-T-A-G-A-A-G-T-G-C-A-A-A-T-A-A-A-T-A-G-A-G-G) (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

RN 326947-84-6 HCAPLUS
 CN DNA, d(G-A-C-T-G-G-A-T-C-C-T-C-T-A-T-T-A-T-T-G-C-A-C) (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

=> d his

(FILE 'HOME' ENTERED AT 13:27:28 ON 15 MAR 2006)

FILE 'HCAPLUS' ENTERED AT 13:27:38 ON 15 MAR 2006

L1 2 (US2002-049486 OR WO2000-US22199 OR US1999-148810#) /AP, PRN
 SEL AN 2

L2 1 E1-2 AND L1
 E BLACKSHEAR P/AU

L3 195 E3-4, E10-13
 E LAI W/AU

L4 90 E3, E19
 E LAI WI/AU

L5 39 E4
 E CARBALLO E/AU

L6 60 E3, E5-6
 E CABALLO JANE E/AU
 E JANE E/AU

L7 15 E3-5

L8 4222 (HHS OR HEALTH (L) HUMAN (L) SERV?)/CS, PA

FILE 'REGISTRY' ENTERED AT 13:32:46 ON 15 MAR 2006

FILE 'HCAPLUS' ENTERED AT 13:32:50 ON 15 MAR 2006

L9 TRA L2 1- RN : 34 TERMS

FILE 'REGISTRY' ENTERED AT 13:32:50 ON 15 MAR 2006

L10 34 SEA L9

L11 20 L10 AND PROTEIN/FS
 SEL RN 17 20

L12 2 E1-2 AND L11

L13 QUE MEISNDSLDFSSFFPQLSPPADPETPLLPSFSAPPKHLSSLRYKTELCSRYAESGF

L14 QUE MDLTAIYESLLSLSPDVPSDHGTESSPGWGSSGPWSLSPSDSSPGVTSRLPGRST

L15 QUE PDEYASSGSSLGGSDSPVFEAGVFAPPQPVAAPRRLPIFNRISE/SQSP

L16 22 L13|L14&L15/SQSP

FILE 'HCAPLUS' ENTERED AT 13:47:53 ON 15 MAR 2006
L17 29 L16
L18 2835 TTP OR TRISTETRAPROLIN#
L19 2855 L17-18

FILE 'REGISTRY' ENTERED AT 13:48:34 ON 15 MAR 2006
L20 14 L10 NOT L11

FILE 'STNGUIDE' ENTERED AT 13:50:56 ON 15 MAR 2006

FILE 'REGISTRY' ENTERED AT 13:51:44 ON 15 MAR 2006
L21 18 L11 NOT L12

FILE 'HCAPLUS' ENTERED AT 13:53:35 ON 15 MAR 2006
L22 41 TRIS (1W)TETRAPROLIN#

FILE 'REGISTRY' ENTERED AT 13:55:40 ON 15 MAR 2006
L23 13 L10 AND SQL/FA AND NUCLEIC/FS

FILE 'HCAPLUS' ENTERED AT 13:56:38 ON 15 MAR 2006
L24 1 L23 AND L2

FILE 'REGISTRY' ENTERED AT 13:57:15 ON 15 MAR 2006
L25 1 157079-69-1

FILE 'HCAPLUS' ENTERED AT 13:57:46 ON 15 MAR 2006
L26 5 L23,L25
L27 1 L26 AND L19,L22

FILE 'MEDLINE' ENTERED AT 13:58:43 ON 15 MAR 2006
L28 0 L27

FILE 'EMBASE' ENTERED AT 13:59:06 ON 15 MAR 2006
L29 0 L27

FILE 'BIOSIS' ENTERED AT 13:59:13 ON 15 MAR 2006
L30 0 L27

FILE 'REGISTRY' ENTERED AT 13:59:34 ON 15 MAR 2006
L31 77 (((TUMOUR OR TUMOR) (1W)NECRO? (1W)FACTOR# OR TNF) (1W)ALPHA OR
L32 77 AU/SQSN AND L31

FILE 'HCAPLUS' ENTERED AT 14:02:34 ON 15 MAR 2006
L33 31 L32
L34 1 L33 AND L19,L22
L35 2 L27,L34
L36 1 L35 AND L1-8
L37 1 L35 NOT L36
L38 2 L35-37

FILE 'MEDLINE' ENTERED AT 14:04:44 ON 15 MAR 2006
L39 0 L34

FILE 'EMBASE' ENTERED AT 14:05:02 ON 15 MAR 2006
L40 0 L34

FILE 'BIOSIS' ENTERED AT 14:05:12 ON 15 MAR 2006
L41 0 L34

FILE 'REGISTRY' ENTERED AT 14:05:21 ON 15 MAR 2006
SAV TEM L16 SIS586F0/A
SAV TEM L32 SIS586F1/A

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